

AB

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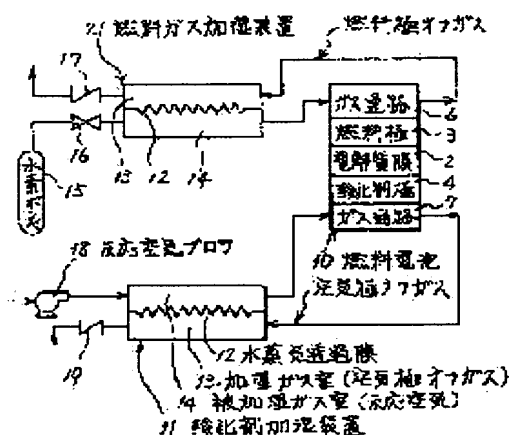
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(54) SOLID HIGHPOLYMER ELECTROLYTE TYPE FUEL CELL

(57)Abstract:

PURPOSE: To provide a solid highpolymer electrolyte type fuel cell equipped with a reaction gas humidifier in which the stable amount of humidification is obtained in accordance with a change in the amount of reaction gas, the miniaturization and the capacity increase of which is easy to make.

CONSTITUTION: The stack 10 of a solid highpolymer electrolyte type fuel cell is constituted by laminating plural layers unit cells 1 including a solid high polymer film 2, a fuel electrode 3 and an oxidant electrode 4 through a bipolar plate having reaction gas passages 6, 7 made of recessed grooves. Reaction gas humidifiers 11, 21, are provided, which are equipped with a vapor permeation film 12, a gas humidification chamber 13 defined by the film 12 and a chamber 14 for gas to be humidified, and which humidify reaction gas while off-gas exhausted from a reaction gas passage is used as humidification gas and reaction gas supplied to the reaction gas passage is used as gas to be humidified.



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